

Navajo Abandoned Uranium Mine Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits and pits. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites lands not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands but that are or may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, to record all immediate site information associated with the mine site and to document the recommendation and/or decision on what additional steps, if any, are needed at the site.

Francis AUM Site

Navajo AUM Eastern Region

Prepared by:

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Contract: W91238-06-F-0083

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Part I Site Identification, Location and Status**Site Names and ID numbers as applicable****Mine ID:** 335**Map ID:** E47**CERCLIS:** NNN 000 908 715**NAMLRP:** NOT ASSIGNED**New Mexico Mining and Mineral Division ID:** NM0150**New Mexico Bureau of Geology and Mineral Resources:** NNMK0071**Local name / Aliases:** Frances, Frances No. 1-35**Chapter and local area:** Baca/Haystack Chapter**Lat/Long:** 35.46254893 N / -108.024680847 W**Nearby road and highway:** Route 19, Red Cliffs Road **Local Post Office:** Prewitt, NM**Land Status: check one or more and provide ownership and contact information below**

| | |
|----------------------------|-------------------------------------|
| Tribal Trust Land | <input type="checkbox"/> |
| Tribal Fee Land | <input type="checkbox"/> |
| Allotment | <input type="checkbox"/> |
| Fee land | <input type="checkbox"/> |
| Public lands | <input checked="" type="checkbox"/> |
| Private | <input type="checkbox"/> |
| Bureau of Land Mgmt | <input type="checkbox"/> |
| State | <input type="checkbox"/> |

Ownership and contact information:

No ownership was identified. The mine site property is classified as Public Land Order 964, but no residences were found within 0.25 miles of the site

Part II Site Observations

Observed Structures: list number of and describe human habitation status of structures at the following distances from mine:

0 to 200 feet: None **200 feet to 0.25 mile:** None

Observed Public or commercial structure: list and describe all schools, clinics, Chapter Houses, places of business and any other structure used by members of the community at the following distances:

0 to 200 feet: None **200 feet to 0.25 mile:** None

Levels measured around the perimeter(s) of the identified structure(s):

None

Observed water sources: list the number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine:

0 to 0.25 miles: None **0.25 miles to 4 miles:** none

Sensitive environments: note and describe all sensitive environments located within visible range of the mine site, including: wetlands, endangered species habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation.

None observed

Known Site History: include information from interviews with Chapter officials and residents.

Note information on mine ownership, period of operation, and type of mining operation.

The Francis mine consists of an area of 12,879.45 square meters with underground workings of unknown excellent. Any historical information pertaining to mining operations and historical ownership of the mine site appeared to be unclear.

Part III Type, number and reclamation status of mine features

Provide description and reclamation status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all reclamation caps.

Reclamation status of the mine sites are currently unknown. No visible signs of reclamation were observed. The mine is located in a canyon with steep bluffs. Three adits were observed located in bluffs at the mine, one of which was located approximately 25 feet up the vertical bluff with waste rock piles below. No other mine features were observed during the site visit.

Part IV Summary of radiological readings**Background Locations**

#1 9,891 cpm

#2 12,830 cpm

#3 17,480 cpm

Mine site: Francis

- See Figures 1 and 2

Nearby Structure Perimeter – None**Describe any other radiological measurements:**

A total of 1,710 gamma radiation measurements were collected from the mine site, ranging from 8,107 cpm to 158,906 cpm. The measurements are represented in Figures 1 and 2.

Part V Site sketch of all mine features and readings, including locations of all structures, sources of drinking water and any other important features and radiological readings.

Presented in Figures 1 and 2

Part VI Response Action Summary

Site Name(s): Francis **Chapter:** Baca/Haystack

Decision Criteria

Is there an unreclaimed waste pile at the site? Yes

At what distance from the waste pile is the nearest residential structure located? 2.25 miles

At what distances from the waste pile are there potential drinking water sources? 2.5 miles

Is there a reclamation cap or sealed adit in place at the site? No

Is the cap/seal functionally intact? N/A

Is the cap/seal sufficiently degraded to create a concern about releases? N/A

At what distance from the cap/seal is the nearest domestic structure located? N/A

At what distance from the cap/seal is the nearest domestic drinking water source? N/A

Summary of emergency response factors

None

Summary hazard ranking system factors

None

Summary of reclamation factors

No known reclamation

Part VII Photos



Photo 1. Francis Mine site, towards the west



Photo 2. Francis Mine site, towards the east



Photo 3. Francis Mine site, adit and waste rock pile

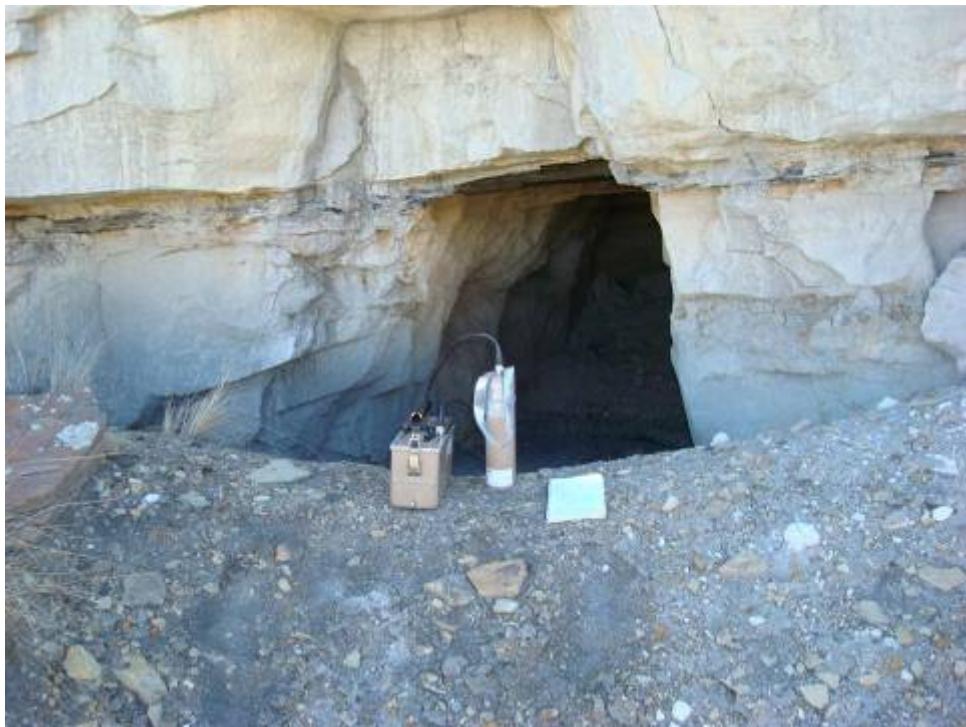


Photo 1. Francis Mine site, adit located at eastern portion of mine

Part VIII Contacts Reports and Information

Name Stanley Edison

Title or official role (if any) Navajo EPA Superfund Program

Address PO Box 2946, Window Rock, AZ 86515

Information provided General Background and Contact/Access Information

Name _____

Title or official role (if any) _____

Telephone number _____

Information provided _____

Name _____

Title or official role (if any) _____

Telephone number _____

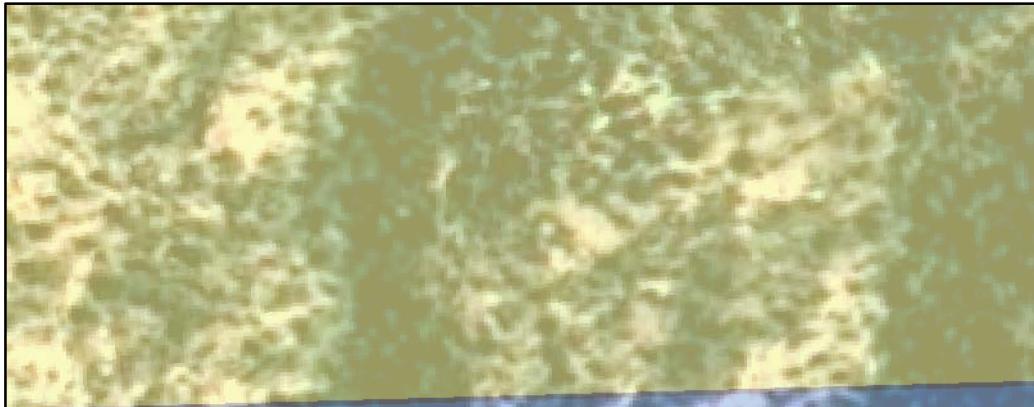
Information provided _____

Name _____

Title or official role (if any) _____

Telephone number _____

Information provided _____



Legend

Gamma Radiation Measurements

- < 2X Background
- > 2X Background
- Private
- Public Land Ordinance
- Mine Claim Boundaries



Gamma survey conducted in October 2008
measured as counts per minute (cpm)
Average background = 13,400 cpm



Gamma Radiation Measurements
Above Two Times Background
Francis
Baca/Haystack Chapter
Navajo Nation, New Mexico

Figure 1

